Qisheng Lin

List of Publications by Year
in descending order

61 papers	1,279 citations	279798 23 h-index	395702 33 g-index
75 all docs	75 docs citations	75 times ranked	889 citing authors

#	Article	IF	Citations
1	Quasi-One-Dimensional Structure and Possible Helical Antiferromagnetism of RbMn₆Bi₅. Inorganic Chemistry, 2021, 60, 12941-12949.	4.0	14
2	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in theTa-,Cu-, andFe-SubstitutedCeCo5Systems. Physical Review Applied, 2019, 11, .	3.8	15
3	Growth of PrCo2 single crystals with a Boron Nitride crucible. Journal of Crystal Growth, 2019, 507, 209-212.	1.5	3
4	Near room temperature antiferromagnetic ordering with a potential low-dimensional magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>AlMn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	2.4	11
5	Electron-Poor Polar Intermetallics: Complex Structures, Novel Clusters, and Intriguing Bonding with Pronounced Electron Delocalization. Accounts of Chemical Research, 2018, 51, 49-58.	15.6	29
6	An inverse Ruddlesden-Popper nitride Ca₇(Li_{1â^'x}Fe<u>_x</u>)Te₂N₂ grown from Ca ï¬‚ux. Philosophical Magazine Letters, 2018, 98, 118-125.	1.2	2
7	Polar Intermetallics Pr₅Co₂Ge₃ and Pr₇Co₂Ge₄ with Planar Hydrocarbonâ€Like Metal Clusters. Chemistry - A European Journal, 2017, 23, 10516-10521.	3.3	7
8	Growth and characterization of BaZnGa. Philosophical Magazine, 2017, 97, 3317-3324.	1.6	0
9	Enhancement of the Superconducting Gap by Nesting in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaKFe</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>: A New High Temperature Superconductor. Physical Review Letters, 2016, 117, 277001.	7.8	71
10	Tuning Complexity by Lithiation: A Family of Intergrowth Structures Using Condensed hypho-Icosahedra in the Li-Doped Caâ€“Zn System. Inorganic Chemistry, 2016, 55, 5041-5050.	4.0	4
11	Superconducting properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Rh</mml:mi><mml:mn>9</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>single crystals. Physical Review B, 2016, 93, .	3.2	7
12	On the Structure and Stability of BaAl₄â€Type Ordered Derivatives in the Srâ€“Auâ€“Sn System for the 600 Â°C Section. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 375-382.	1.2	3
13	Oxygen trapped by rare earth tetrahedral clusters in Nd4FeOS6: Crystal structure, electronic structure, and magnetic properties. Journal of Solid State Chemistry, 2015, 229, 41-48.	2.9	6
14	Lithiation-Induced Zinc Clustering of Zn3, Zn12, and Zn18 Units in Zintl-Like Caâ¼30Li3+xZn60â€“x (x =) Tj ETQq0 0 0 rgBT /Overlock	4.0	2
15	The low-temperature form of calcium gold stannide, CaAuSn. Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 773-775.	0.5	5
16	Pronounced matrix effect in YbMo2Al4-type Ca(AuxZn2â^'x)Au4 (x=0.09â€“0.89). Journal of Solid State Chemistry, 2014, 218, 103-108.	2.9	8
17	Ordered BaAl4-Type Variants in the BaAuxSn4â€“xSystem: A Unified View on Their Phase Stabilities versus Valence Electron Counts. Inorganic Chemistry, 2014, 53, 5875-5877.	4.0	12
18	Gold Network Structures in Rhombohedral and Monoclinic Sr2Au6(Au,T)3 (T = Zn, Ga). A Transition via Relaxation. Inorganic Chemistry, 2013, 52, 13623-13630.	4.0	22

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19	Disorderâ€“Order Structural Transformation in Electron-Poor Sr₃Au₈Sn₃ Driven by Chemical Bonding Optimization. Inorganic Chemistry, 2013, 52, 6603-6609.	4.0	9
20	Hexagonal-Diamond-like Gold Lattices, Ba and (Au,T)₃ Interstitials, and Delocalized Bonding in a Family of Intermetallic Phases Ba₂Au₆(Au,T)₃ (T = Zn,) Tj ETQq1 1 0.7 0 rgBT /Overlock	13.7	24
21	Goldâ€™s Structural Versatility within Complex Intermetallics: From Hume-Rothery to Zintl and even Quasicrystals. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	5
22	RÃ¼cktitelbild: A Sodium-Containing Quasicrystal: Using Gold To Enhance Sodiumâ€™s Covalency in Intermetallic Compounds (Angew. Chem. 51/2012). Angewandte Chemie, 2012, 124, 13072-13072.	2.0	0
23	A Sodiumâ€Containing Quasicrystal: Using Gold To Enhance Sodiumâ€™s Covalency in Intermetallic Compounds. Angewandte Chemie - International Edition, 2012, 51, 12699-12702.	13.8	42
24	Two Homologous Intermetallic Phases in the Naâ€“Auâ€“Zn System with Sodium Bound in Unusual Paired Sites within 1D Tunnels. Inorganic Chemistry, 2012, 51, 9395-9402.	4.0	15
25	Conventional and Stuffed Bergman-Type Phases in the Naâ€“Auâ€“T (T = Ga, Ge, Sn) Systems: Syntheses, Structures, Coloring of Cluster Centers, and Fermi Sphereâ€“Brillouin Zone Interactions. Inorganic Chemistry, 2012, 51, 8882-8889.	4.0	30
26	Formation of Nets of Corner-Shared Bicapped Gold Squares in SrAu₃Ge: How a BaAl₄-Type Derivative Reconciles Fewer Valence Electrons and the Origin of Its Uniaxial Negative Thermal Expansion. Journal of the American Chemical Society, 2012, 134, 4877-4884.	13.7	19
27	Ca14Au46Sn5: a â€œColoredâ€•Gd14Ag51-Type Structure Containing Columns of Well-Differentiated Hexagonal Gold Stars. Inorganic Chemistry, 2011, 50, 1808-1815.	4.0	22
28	Exploratory Syntheses and Structures of SrAu4.3In1.7and CaAg3.5In1.9: Electron-Poor Intermetallics with Diversified Polyanionic Frameworks That Are Derived from the CaAu4In2Approximant. Inorganic Chemistry, 2011, 50, 11091-11098.	4.0	20
29	Mg1-yScyZn2: Limited Sc/Mg Alloying between Laves Phase MgZn2 and ScZn2 - What Drives ScZn2 into a High-Pressure Phase?. European Journal of Inorganic Chemistry, 2011, 2011, 3931-3935.	2.0	4
30	Development of an Icosahedral Quasicrystal and Two Approximants in the Caâˆ’Auâˆ’Sn System: Syntheses and Structural Analyses. Inorganic Chemistry, 2010, 49, 10436-10444.	4.0	29
31	Multiple Nonstoichiometric Phases with Discrete Composition Ranges in the CaAu₅â^’CaAu₄Biâ^’BiAu₂System. A Case Study of the Chemistry of Spinodal Decomposition. Journal of the American Chemical Society, 2010, 132, 5662-5671.	13.7	9
32	M₃(Au,Ge)₁₉ and M_{3.25}(Au,Ge)₁₈ (M = Ca, Yb): Distinctive Phase Separations Driven by Configurational Disorder in Cubic YCd₆-Type Derivatives. Inorganic Chemistry, 2010, 49, 4570-4577.	4.0	30
33	Centric and Non-centric Ca3Auâ^¼7.5Geâ^¼3.5: Electron-Poor Derivatives of La3Al11. Syntheses, Structures, and Bonding Analyses. Inorganic Chemistry, 2009, 48, 5403-5411.	4.0	17
34	A Chemical Approach to the Discovery of Quasicrystals and Their Approximant Crystals. Structure and Bonding, 2009, , 1-39.	1.0	22
35	Approximant Phases and an Icosahedral Quasicrystal in the Caâˆ’Auâˆ’Ga System: The Influence of Size of Gallium versus Indium. Inorganic Chemistry, 2008, 47, 7651-7659.	4.0	48
36	Interpenetrating Networks of Three-Dimensional Penrose Tiles in CaAu3Ga, the Structurally Simplest Cubic Approximant of an Icosahedral Quasicrystal. Inorganic Chemistry, 2008, 47, 3462-3464.	4.0	24

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37	Synthesis, Structure, and Bonding of Sc4MgxCu15â€‰-â€‰xGaâˆ¼7.5 (x = 0, 0.5). Two Incommensurately Modulated Scandium Substitution Derivatives of Cubic Mg2Cu6Ga5. Inorganic Chemistry, 2008, 47, 1020-1029.	4.0	10
38	Li14.7Mg36.8Cu21.5Ga66: An Intermetallic Representative of a Type IV Clathrate. Inorganic Chemistry, 2008, 47, 10825-10831.	4.0	12
39	Development of the Caâˆ’Auâˆ’In Icosahedral Quasicrystal and Two Crystalline Approximants:Â Practice via Pseudogap Electronic Tuning. Journal of the American Chemical Society, 2007, 129, 6789-6797.	13.7	66
40	Ca4Au10In3:â€‰ Synthesis, Structure, and Bonding Analysis. The Chemical and Electronic Transformations from the Isotypic Zr7Ni10 Intermetallic. Inorganic Chemistry, 2007, 46, 8722-8727.	4.0	41
41	The 1/1 and 2/1 Approximants in the Scâˆ’Mgâˆ’Zn Quasicrystal System:Â Triacontahedral Clusters as Fundamental Building Blocks. Journal of the American Chemical Society, 2006, 128, 13268-13273.	13.7	37
42	Crystallographic and magnetic properties of CaLaMnMoO6 double perovskite. Journal of Solid State Chemistry, 2006, 179, 2086-2092.	2.9	13
43	New building blocks in the 2/1 crystalline approximant of a Bergman-type icosahedral quasicrystal. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13589-13594.	7.1	39
44	Evolution of structure and magnetic properties in electron-doped double perovskites, Sr2âˆ’La MnWO6 (0â©½xâ©½1). Journal of Solid State Chemistry, 2005, 178, 1356-1366.	2.9	28
45	Mg35Cu24Ga53: A Three-Dimensional Cubic Network Composed of Interconnected Cu6Ga6 Icosahedra, Mg-Centered Ga16 Icosioctahedra, and a Magnesium Lattice.. ChemInform, 2005, 36, no.	0.0	0
46	Mg35Cu24Ga53:Â A Three-Dimensional Cubic Network Composed of Interconnected Cu6Ga6Icosahedra, Mg-Centered Ga16Icosioctahedra, and a Magnesium Lattice. Inorganic Chemistry, 2005, 44, 512-518.	4.0	31
47	Electronic Tuning of Mg2Cu6Ga5. A Route to Crystalline Approximant and Quasicrystalline Phases. Journal of the American Chemical Society, 2005, 127, 12786-12787.	13.7	21
48	A Study of the Phase Mg2Cu6Ga5, Isotypic with Mg2Zn11. A Route to an Icosahedral Quasicrystal Approximant.. ChemInform, 2004, 35, no.	0.0	0
49	Synthesis and Structure of Five Sc3CuyZn18-y-Type Compositions (0 â‰¤ y â‰¤ â‰ˆ2.2), 1/1 Crystalline Approximants of a New Icosahedral Quasicrystal. Direct Example of Tuning on the Basis of Size Effects and Humeâ€”Rothery Concepts.. ChemInform, 2004, 35, no.	0.0	0
50	Synthesis and Structure of Five Sc3CuyZn18-y-Type Compositions (0 â‰¤yâ‰¤ âˆ¼2.2), 1/1 Crystalline Approximants of a New Icosahedral Quasicrystal. Direct Example of Tuning on the Basis of Size Effects and Humeâˆ’Rothery Concepts. Inorganic Chemistry, 2004, 43, 1912-1919.	4.0	61
51	A Study of the Phase Mg2Cu6Ga5, Isotypic with Mg2Zn11. A Route to an Icosahedral Quasicrystal Approximant. Inorganic Chemistry, 2003, 42, 8762-8767.	4.0	28
52	Computer simulation study of extrinsic defects in PbWO4crystals. Journal of Physics Condensed Matter, 2003, 15, 1963-1973.	1.8	29
53	New stable icosahedral quasicrystalline phase in the Scâ€“Cuâ€“Zn system. Philosophical Magazine Letters, 2003, 83, 755-762.	1.2	34
54	Syntheses, Crystal and Electronic Structures, and Linear Optics of LiMBO3(M = Sr, Ba) Orthoborates. Chemistry of Materials, 2001, 13, 1841-1847.	6.7	51

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55	Computer simulation of intrinsic defects inPbWO4. Physical Review B, 2001, 63, .	3.2	33
56	Superstructure in PbWO4: La crystal. Ferroelectrics, 2001, 251, 85-91.	0.6	8
57	Origin of the radiation-induced 420nm color center absorption band in PbWO4 crystals. Solid State Communications, 2001, 118, 221-223.	1.9	33
58	Formation of the 350 nm Intrinsic Color Center in PbWO4 Crystals. Physica Status Solidi A, 2000, 181, R1-R3.	1.7	35
59	The structure of a PWO:La3+ crystal. Journal of Alloys and Compounds, 2000, 307, 245-248.	5.5	12
60	Calcium pyroborate, Ca2B2O5. Acta Crystallographica Section C: Crystal Structure Communications, 1999, 55, 4-6.	0.4	17
61	Crystal and Electronic Structures and Linear Optics of Strontium Pyroborate. Journal of Solid State Chemistry, 1999, 144, 30-34.	2.9	29